Optimistic Processing of Network Frames to Reduce Latency

ABSTRACT

5   A system and method in which the server device processes the lower level layers, referred to herein as the "network portion", of a frame substantially in parallel with the processing of the application portion of the frame. The application portion of the frame, which may include an HTTP request is forwarded to the server application such as a web server, while the network portion of the frame is processed. If the processing of the network portion

10   determines that the frame was mis-delivered or is corrupted, the response to the HTTP request is aborted, otherwise the response is processed and returned to the client. By optimistically assuming that the request was delivered correctly, the present invention leverages the parallel processing capabilities available on many server appliances and improve response time without incurring any substantial performance penalty.